# **Chemistry Report for Case # P-19-0009**

## General

Submitter: Allnex USA Inc.	
Contact: Daniel Liebowitz	Contact Telephone No.:
TS No.:	
Chemist: Masten, Bethany	Contractor Support: Y
PV Init (kg/yr):	PV Max (kg/yr):
Binding Option: $\square$	Exposure-Based Review: 🗹
Manufacture:	Import: ✓
Chemical Name  Trade Name:RESYDROL® S  IES Order:None	WE 5862/37 liquid coating resins
Generic Name: Carbonmonocycl polymer with haloalkyl substitute hydro-hydroxypoly[oxy(alkyl-alk dialkyl-alkanediamine-terminated (salts)	d heteromonocycle and canediyl)],
Chemical Structure	

# **Physical Chemical Properties**

Molecular Formula: Molecular Weight:3129.0

**% < 500:**1.2 **% < 1000:**5.7

MP: MP Estimate:

BP: BP Pressure:

**BP Estimate:** 

VP (Torr): VP Estimate (Torr):<0.000001

Water Soluble Estimate (g/L): Dispersible

Log P: Log P Estimate:

Physical State — Neat: Physical State — Manuf: NK: Import

**Physical State** — **Processing:** 

Physical State — End Use:

## **Additional Chemical Info**

NAVG

MW = 3129 with 1.2% < 500 and 5.7% < 1000 by GPC.

Submitted

Properties: WS = Soluble; Density = 1.05 g/cc.

**Estimated Properties: VP** 

< 0.000001 torr (Polymer salt); WS = Dispersible (Polymer

salt).

Amine FGEW = [(130.23)(100)]/[(8.38)(2)] = 777 by

charge.

Amine FGEW = NAVG/4 = 782 by termination.

Formaldehyde FGEW

= [(30.03)(100)]/(3.06)(1)] = 981 by charge.

Formaldehyde FGEW = NAVG/2

= 1565 by termination.

Combined FGEW = 1/[(1/777) + (1/981)] = 434 by

charge.

Combined FGEW = 1/[(1/782) + (1/1565)] = 521 by

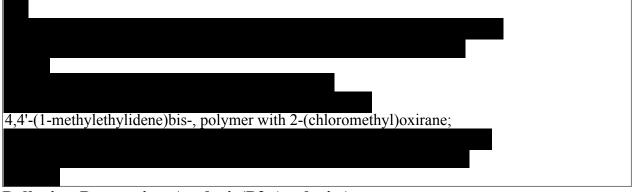
termination.

The structure as drawn on page 1 of this report has a molecular weight of 1162 g/mole.

### Uses

# Corrosion protection additive in resin for cathodic electrodeposition dip coating for metal substrates. Amine FGEW = 777 by charge, 782 by termination. Formaldehyde FGEW = 981 by charge, 1565 by termination. Combined FGEW = 434 by charge, 521 by termination. Analogue Other Uses: Analogue Analogs

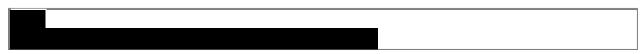
# **Reaction Description**



## Pollution Prevention Analysis(P2 Analysis:)

None.

## Analogs



## **Comments/Telephone Log**

Artifact	Update/Upload Time